

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

Amendment

A brushless DC motor is disclosed, in which a commercial AC source is full-wave rectified by a rectifier ~~(9)~~ and then converted into a generally flat and low DC voltage not more than 45V by a DC voltage converter ~~(8)~~. The low DC voltage is applied in a full-wave driving method to a stator coil ~~(2)~~ via an inverter circuit ~~(6)~~ formed of switching elements in a bridge configuration. This structure allows obtaining the brushless DC motor coupled directly to the AC source, and the torque ripples and uneven rotation of the motor are suppressed.

Attachment

Abstract

A brushless DC motor is disclosed, in which a commercial AC source is full-wave rectified by a rectifier and then converted into a generally flat and low DC voltage not more than 45V by a DC voltage converter. The low DC voltage is applied in a full-wave driving method to a stator coil via an inverter circuit formed of switching elements in a bridge configuration. This structure allows obtaining the brushless DC motor coupled directly to the AC source, and the torque ripples and uneven rotation of the motor are suppressed.